CHANGE CONTROL INDEX

LTRS	REVISIONS		
ORIGINATOR	CHECKER	ENGR APP	MATL APP
INITIAL RELEASE CHKB34-1B347-AA-00-FNA-ECN/1 RELEASED 20180921			
FTSI	RWAGNE43	DATOVSKI	--

LTRS	REVISIONS		
ORIGINATOR	CHECKER	ENGR APP	MATL APP
REVISED PAGES 7, 9, 10, 16. ADDED PAGES 17, 18, 19, 20, 21. CHKB34-1B347-AA-00-FNA-ECN/2 RELEASED 20190612			
FTSI	PHEIRTZL	PHEIRTZL	--

LTRS	REVISIONS		
ORIGINATOR	CHECKER	ENGR APP	MATL APP
REVISED PAGES 19, ADDED CAMERA WIRING PIGTAIL INFO CHKB34-1B347-AA-00-FNA-ECN/3 RELEASED 20190730			
FTSI	PHEIRTZL	PHEIRTZL	--

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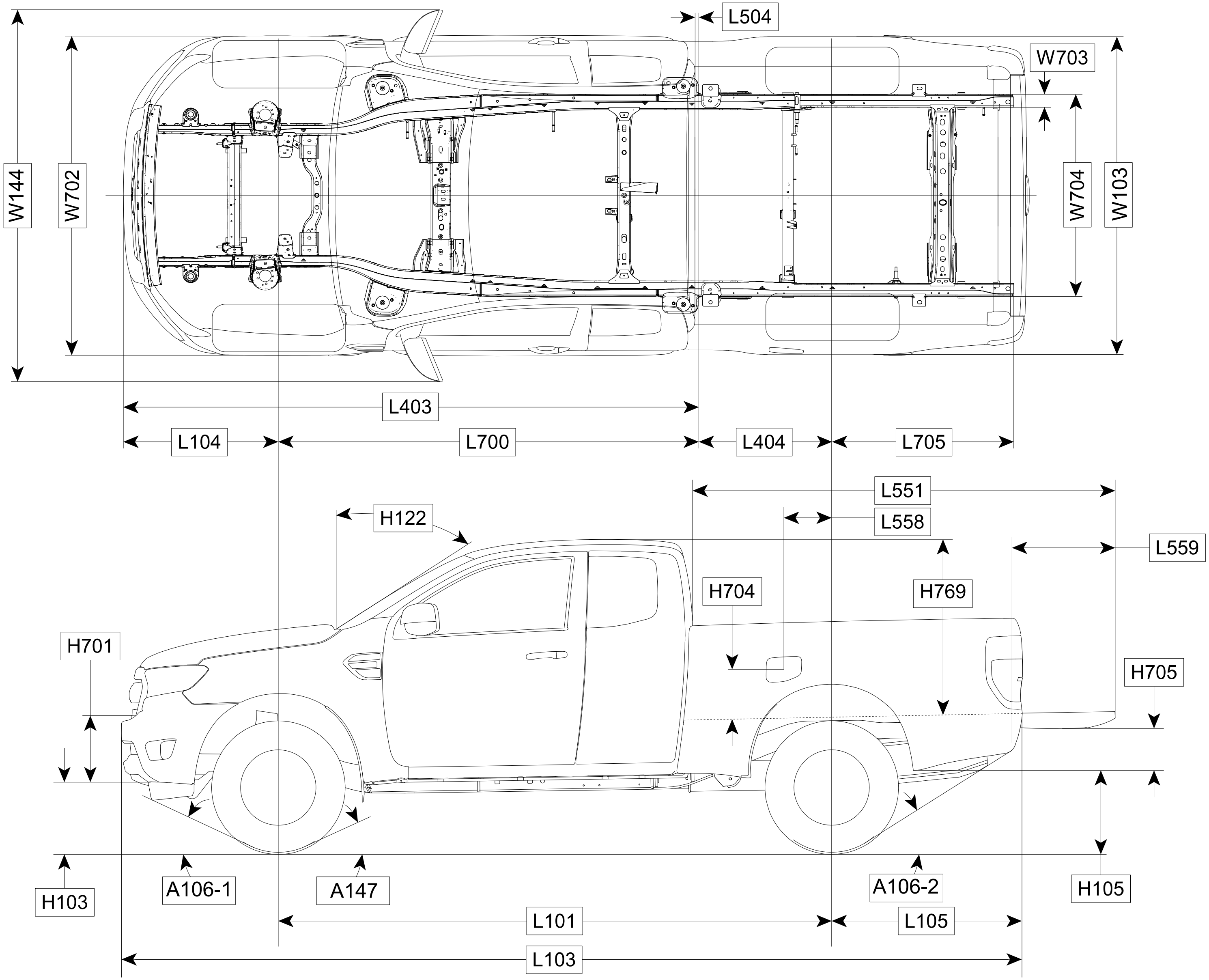
WARNING:
During the production and servicing of these vehicles, due care should be taken to avoid damaging of safety or emissions related systems such as the braking system, fuel lines, sensors, catalysts, etc. through contacting them while working on adjacent areas of the vehicle. Inadvertent damage can also occur due to adjacent welding/cutting operations, people standing near/on unprotected systems while performing other tasks.

RANGER
MODEL LINEUP
SUPER CAB / CREW CAB / PICKUP BOX DELETE (1)

Cab Style/ Drive	Engine	Max. GVWR (lbs.)	Max. Payload (lbs.) (2)	Max. OPT/ARC Weight (lbs.) (3)	Max. GAWR (lbs.) (4)		Base Curb Weight (lbs.) (5)		
					Front	Rear	Front	Rear	Total
SuperCab 4X2	2.3L EcoBoost	6050	1860	1117	2885	3500	2368	1777	4145
SuperCab Box Delete 4X2	2.3L EcoBoost	6050	2080	N/A (See IVM)	3130	3500	2395	1527	3922
SuperCab 4X4	2.3L EcoBoost	6050	1650	908	3108	3370	2544	1810	4354
CrewCab 4X2	2.3L EcoBoost	6050	1770	1068	2930	3500	2377	1855	4232
CrewCab 4X4	2.3L EcoBoost	6050	1560	859	3130	3370	2554	1887	4441

Notes:
(1) Pickup box delete available with Super Cab 4x2 only.
(2) Load rating represents maximum allowable weight of people,cargo and body equipment and is reduced by optional equipment weight.
(3) OPT/ARC Weight is the maximum allowable weight of regular production options (OPT) and aftermarket equipment (Accessory Reserve Capacity) above standard equipment for each configuration.Please also refer to footnote 5.
(4) Gross Axle Weight Rating is determined by the rated capacity of the minimum component of the axle system (axle, springs,wheels, tires) of a specific vehicle. Front and rear GAWRs will, in all cases, sum to a number equal to or greater than the GVWR for the particular vehicle. Maximum loaded vehicle (including passengers,equipment and payload) cannot exceed the GVW rating or GAWR (front or rear).
(5) Base Curb Weights shown above are for truck models with standard equipment. Please also refer to footnote 3.

RANGER
DIMENSIONAL DATA
SUPER CAB / CREW CAB


L504
W703
W144
W702
W704
W103
L403
L104
L700
L404
L705
L551
L558
H122
L559
H704
H769
H701
H705
H103
A106-1
A147
A106-2
H105
L101
L105
L103

(Cont'd next page)

RANGER
DIMENSIONAL DATA
SUPER CAB / CREW CAB (Cont'd)

CHASSIS

CODE	DESCRIPTION	Super Cab		Crew Cab	
		4x2	**4x4**	**4x2**	**4x4**
H103	BOTTOM OF FRONT BUMPER VALANCE TO GROUND @ CURB (BASE TIRE)	293.9 [11.57]	295.1 [11.62]	293.7 [11.56]	294.9 [11.61]
H105	BOTTOM OF REAR BUMPER VALANCE TO GROUND @ CURB (BASE TIRE)	502.2 [19.77]	519.4 [20.45]	501.1 [19.73]	518.3 [20.41]
A106-1	APPROACH ANGLE @ CURB (DEGREES)	27.9	28.7	27.9	28.7
A106-2	DEPARTURE ANGLE @ CURB (DEGREES) (TAKEN AT BOTTOM OF BUMPER)	25.2	25.4	25.2	25.4
A147	RAMP BREAKOVER ANGLE @ CURB (DEGREES)	22.7	21.5	22.7	21.5
L101	WHEELBASE	3220 [126.8]			
L103	VEHICLE LENGTH	5355 [210.8]			
L104	FRONT OVERHANG (NO LICENSE PLATE BRACKET)	910 [35.8]			
L105	REAR OVERHANG	1225 [48.2]			
L403	FRONT OF BUMPER TO BACK OF CAB	3335 [131.30]		3635 [143.11]	
L404	CAB TO ℄ OF REAR AXLE	795 [31.30]		495 [19.49]	
L700	℄ OF FRONT AXLE TO BACK OF CAB	2425 [95.47]		2725 [107.28]	
L705	℄ OF REAR AXLE TO REAR END OF FRAME	1046 [41.18]			
W703	FRAME RAIL WIDTH	83.2 [3.28]			
W704	REAR FRAME WIDTH	1184.2 [46.62]			

PICKUP BODY

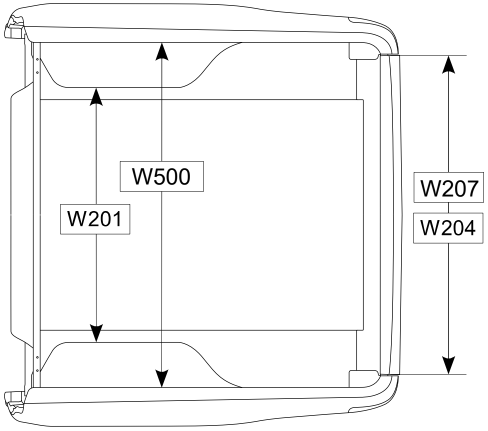
CODE	DESCRIPTION	Super Cab	Crew Cab
NOMINAL CARGO BODY SIZE		**6.0 FT**	**5.0 FT**
H704	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO CL OF FUEL FILLER DOOR	257 [10.12]	
H705	REAR BUMPER HEIGHT WITH TAILGATE CLOSED	266 [10.47]	
H769	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO TOP OF CAB @ ℄ OF REAR AXLE	1017 [40.04]	
L504	CAB TO PICKUP BOX	16.6 [0.65]	
L551	BOX OVERALL LENGTH TO OPEN TAILGATE (MINIMUM)	2468 [97.17]	2168 [85.35]
L558	℄ OF REAR AXLE TO ℄ OF FUEL FILLER DOOR	267 [10.51]	
L559	LENGTH OF OPEN TAILGATE FRONT END OF BOX FLOOR SAME AS F150	626 [24.65]	

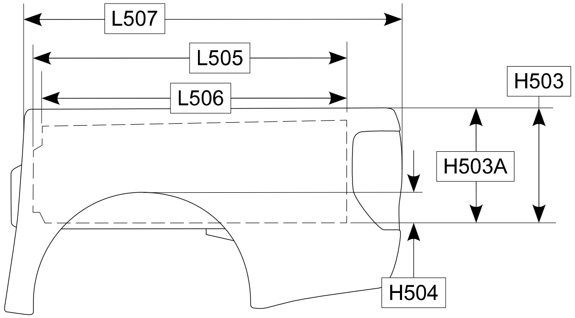
CAB

CODE	DESCRIPTION	Super Cab	Crew Cab
H122	WINDSHIELD ANGLE (DEGREES)	57	
H701	FRONT BUMPER HEIGHT W/ VALENCES	464 [18.27]	464 [18.27]
W103	VEHICLE BODY WIDTH (MAX W/O MIRRORS)	1861 [73.3]	
W144	VEHICLE WIDTH (MAX W/ STANDARD MIRRORS)	2179 [85.8]	
W702	FRONT BUMPER WIDTH	1827 [71.93]	

NOTES — [ ] DIMENSIONS ARE INCHES.

RANGER
DIMENSIONAL DATA
PICKUP BOX

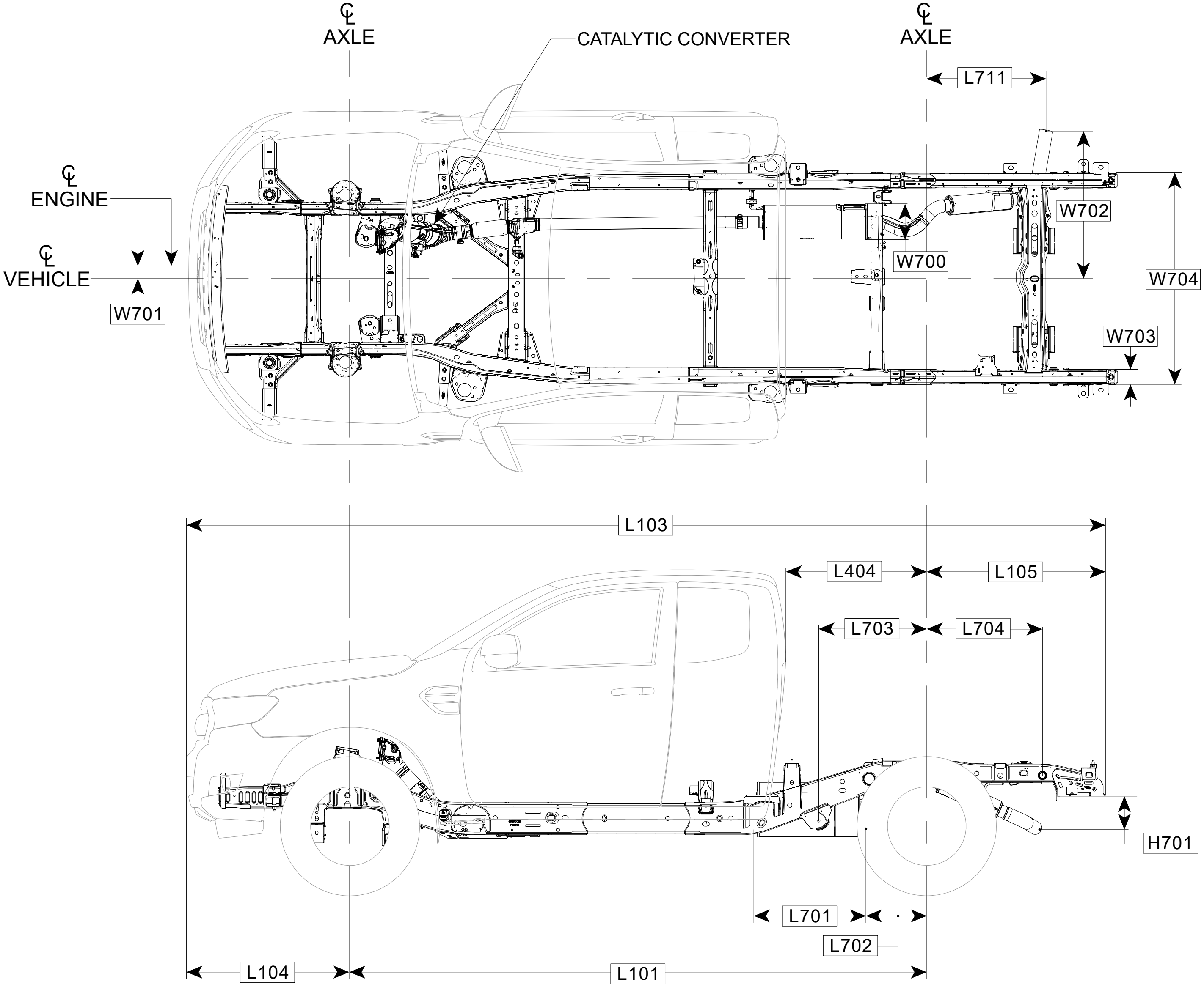




CODE	DESCRIPTION	Super Cab 6ft Box	Crew Cab 5ft Box
H503	CARGO BODY HEIGHT W/ MOLDING	529 [20.8]	531 [20.9]
H503A	CARGO BODY HEIGHT WITHOUT MOLDING @ CL OF REAR AXLE	522 [20.55]	524 [20.63]
H504	WHEELHOUSE HEIGHT WITH MOLDING	139 [5.47]	139 [5.47]
L505	CARGO BODY LENGTH @ FLOOR	1848 [72.8]	1550 [61.0]
L506	CARGO BODY LENGTH @ TOP (BELT)	1777 [70.0]	1479 [58.2]
L507	CARGO BODY OVERALL LENGTH (INCLUDES TAILGATE HANDLE BEZEL & BADGE)	1985 [78.15]	1685 [66.34]
W201	CARGO WIDTH AT WHEELHOUSE	1138 [44.8]	1138 [44.8]
W204	REAR OPENING WIDTH @ TOP (BELT)	1410 [55.5]	1410 [55.5]
W207	REAR OPENING WIDTH AT FLOOR	1408 [55.4]	1408 [55.4]
W500	EXPOSED CARGO WIDTH	1560 [61.4]	1560 [61.4]
V5	CARGO VOLUME - LITERS [C U.FT.]	1466 [51.8]	1225 [43.3]

NOTES — [ ] DIMENSIONS ARE INCHES.

RANGER
DIMENSIONAL DATA
SUPERCAB BOX DELETE


℄ AXLE
CATALYTIC CONVERTER
℄ AXLE
L711
℄ ENGINE
℄ VEHICLE
W701
W702
W700
W704
W703
L103
L404
L105
L703
L704
H701
L701
L702
L104
L101

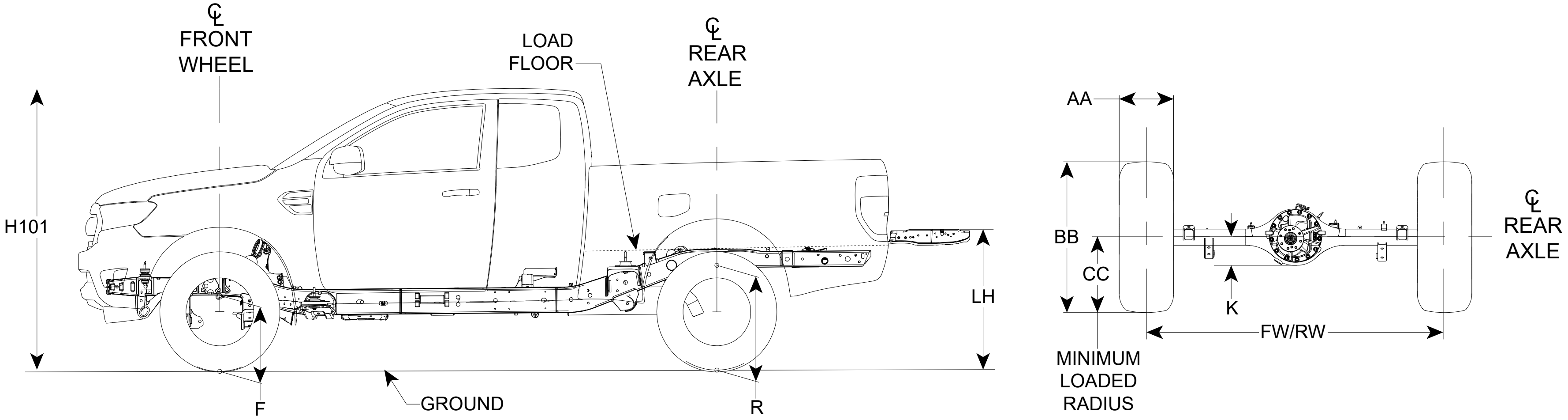
(Cont'd next page)

RANGER
DIMENSIONAL DATA
SUPERCAB BOX DELETE (Cont'd)

CODE	DESCRIPTION	SUPER CAB
		4x2
H701	C/L OF OUTLET PIPE TO BOTTOM OF FRAME	262 [10.31]
L101	WHEELBASE	3220 [126.8]
L103	OVERALL LENGTH	5355 [210.83]
L104	FRONT OVERHANG	910 [35.8]
L105	REAR OVERHANG (TO REAR OF HITCH RECEIVER BRACKETS)	1144.4 [45.05]
L404	BACK OF CAB TO C/L OF REAR AXLE	794.6 [31.28]
L701	MUFFLER LENGTH	583 [22.95]
L702	MUFFLER REAR TO C/L REAR AXLE	356.3 [14.03]
L703	REAR SPRING FRONT EYE TO C/L REAR AXLE	590 [23.23]
L704	C/L REAR AXLE TO C/L REAR SPRING SHACKLE BRACKET	719 [28.31]
L711	C/L OF REAR AXLE TO C/L OF EXHAUST PIPE	645.6 [25.42]
W700	MUFFLER CROSS SECTION	274.9 [10.82]
W701	DISTANCE BETWEEN C/L ENGINE / VEHICLE	0
W702	END OF TAILPIPE TO C/L VEHICLE FROM OUTLET PIPE END TIP	833 [32.80]
W703	FRAME RAIL WIDTH	83.2 [3.28]
W704	REAR FRAME RAIL WIDTH	1184.2 [46.62]

NOTES — [ ] DIMENSIONS ARE INCHES.

RANGER
AXLE / TIRE / VEHICLE HEIGHT DATA
SUPER CAB / CREW CAB



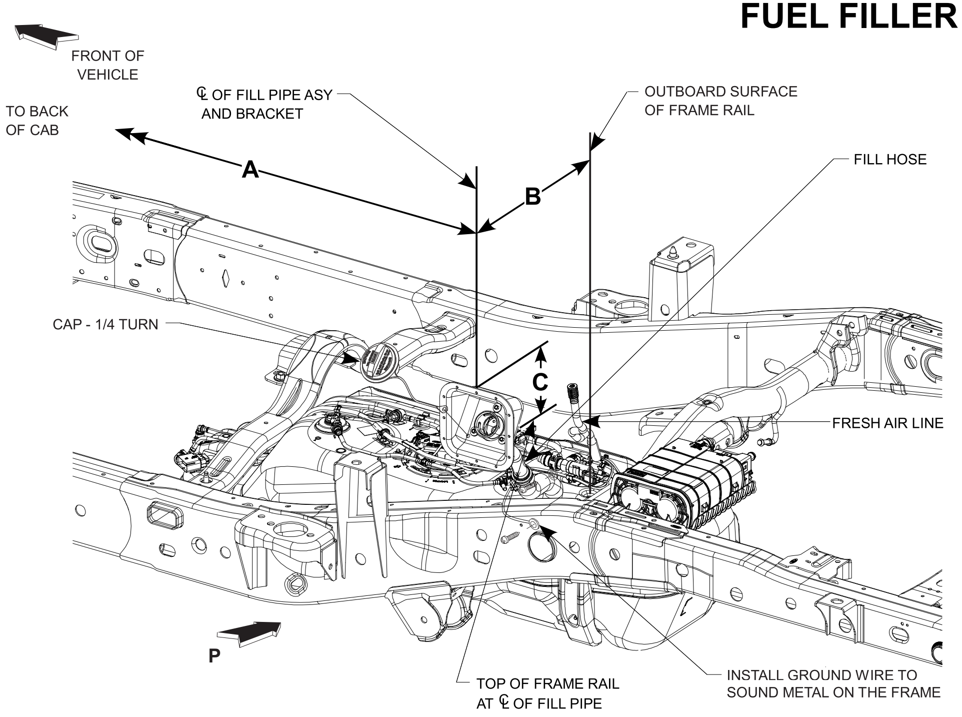
Model	WB inches	GVWR pounds	Base Tire	F Height @ Front Wheel to Bottom of Frame (1)(2) mm [in]		R Height @ Rear Wheel to Bottom of Frame (1)(2) mm [in]		LH (1)(2) mm [in]		H101 (1)(2) mm [in]		K mm [in]	AA mm [in]	BB mm [in]	CC mm [in]	W102-1 FW mm [in]	W102-2 RW mm [in]
				Height @ Base Curb Weight	Loaded Height @ Spring Rating	Height @ Base Curb Weight	Loaded Height @ Spring Rating	Empty	Loaded	Empty	Loaded						
Super Cab 4X2	126.8	6050	255/65R17	435.8 [17.15]	410.7 [16.16]	626.5 [24.66]	530.2 [20.87]	840.2 [33.07]	707.5 [27.85]	1797 [70.74]	1731 [68.14]	138.7 [5.46]	265 [10.43]	730 [28.74]	348.7 [13.72]	1560 [61.41]	1560 [61.41]
Super Cab 4X4	126.8	6050	255/65R17	438.9 [17.27]	413.6 [16.28]	639.9 [25.19]	545.9 [21.49]	858.9 [33.81]	729.7 [28.72]	1807 [71.14]	1742 [68.58]	138.7 [5.46]	265 [10.43]	732 [28.81]	350.4 [13.79]	1560 [61.41]	1560 [61.41]
Crew Cab 4X2	126.8	6050	255/65R17	435.4 [17.14]	410.6 [16.16]	625.6 [24.62]	529.4 [20.84]	839.0 [33.03]	706.4 [27.81]	1806 [71.10]	1737 [68.38]	138.7 [5.46]	265 [10.43]	730 [28.74]	347.9 [13.69]	1560 [61.41]	1560 [61.41]
Crew Cab 4X4	126.8	6050	255/65R17	438.5 [17.26]	413.5 [16.27]	639.0 [25.15]	545.1 [21.46]	857.7 [33.76]	728.6 [28.68]	1816 [71.49]	1748 [68.81]	138.7 [5.46]	265 [10.43]	731 [28.77]	349.6 [13.76]	1560 [61.41]	1560 [61.41]

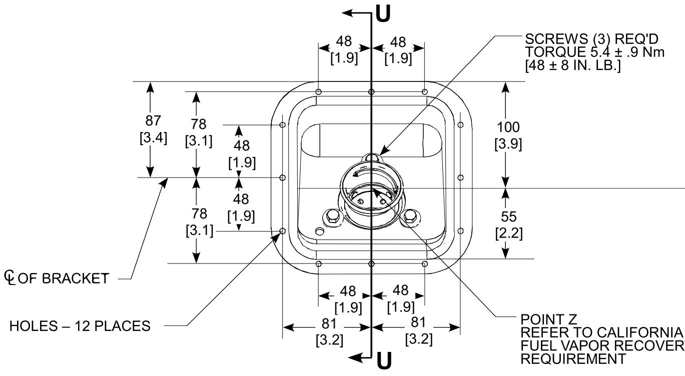
(1) The Height Data shown represents dimensions of a base/standard vehicle with no options. Actual height may vary due to production tolerances.

(2) Vehicle ride heights are given at tire minimum loaded radius.

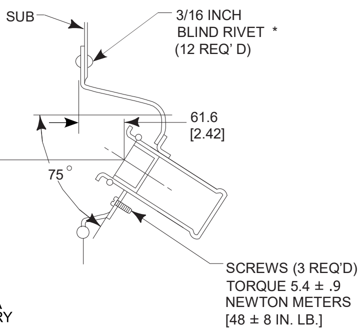
(Cont'd next page)

RANGER
SUPER CAB BOX DELETE
FUEL FILLER PIPE INSTALLATION


FRONT OF VEHICLE
TO BACK OF CAB
℄ OF FILL PIPE ASY AND BRACKET
OUTBOARD SURFACE OF FRAME RAIL
A
B
C
FILL HOSE
CAP - 1/4 TURN
FRESH AIR LINE
P
TOP OF FRAME RAIL AT ℄ OF FILL PIPE
INSTALL GROUND WIRE TO SOUND METAL ON THE FRAME


U
48 [1.9]
48 [1.9]
SCREWS (3) REQ'D
TORQUE 5.4 ± .9 Nm
[48 ± 8 IN. LB.]
87 [3.4]
78 [3.1]
48 [1.9]
48 [1.9]
78 [3.1]
100 [3.9]
55 [2.2]
℄ OF BRACKET
HOLES – 12 PLACES
48 [1.9]
48 [1.9]
81 [3.2]
81 [3.2]
POINT Z
REFER TO CALIFORNIA FUEL VAPOR RECOVERY REQUIREMENT
U

VIEW P


SUB
3/16 INCH BLIND RIVET *
(12 REQ' D)
61.6 [2.42]
75°
SCREWS (3 REQ'D)
TORQUE 5.4 ± .9 NEWTON METERS
[48 ± 8 IN. LB.]

SECTION U

Important

Fuel fill hose as standard will suit a mounting position 40" from vehicle centerline (for 80" wide Second Unit Body). Fill hose has a paint mark on it which indicates where the hose should be cut for mounting 36" from vehicle centerline (for 72" wide SUB).

The fuel hose is formed and cannot be changed.

The fresh air line tube end must be above fuel filler, ▽C min 11".

Install ground wire to sound metal on the frame.

The fuel evaporative emission control equipment is certified to be in compliance with the Federal and California Vehicle Emission Standards, any alterations to systems or components and their location could void compliance. System includes but not limited to:
*Fuel tank, Fuel fuller, Metering Unit, Lines including purge control solenoids & Canister

NO ALTERATION OF THE FUEL SYSTEM IS RECOMMENDED.

MODEL	WHEELBASE	
SUPER CAB	3220 [126.8]	
FUEL FILLER CUP LOCATION		
▽A	MIN	280 [11.0]
	MAX	330 [13.0]
▽B	MIN	327 [12.9]
	MAX	429 [16.9]
▽C	MIN	267 [10.5]
	MAX	392 [11.5]
FRESH AIR LINE		
▽C	MIN	280 [11.0]

NOTES:

▽ TORQUE ALL WORM GEAR DRIVEN HOSE CLAMPS TO 4.8 ± 8 NEWTON METERS [43 ± 7 IN. LB.]

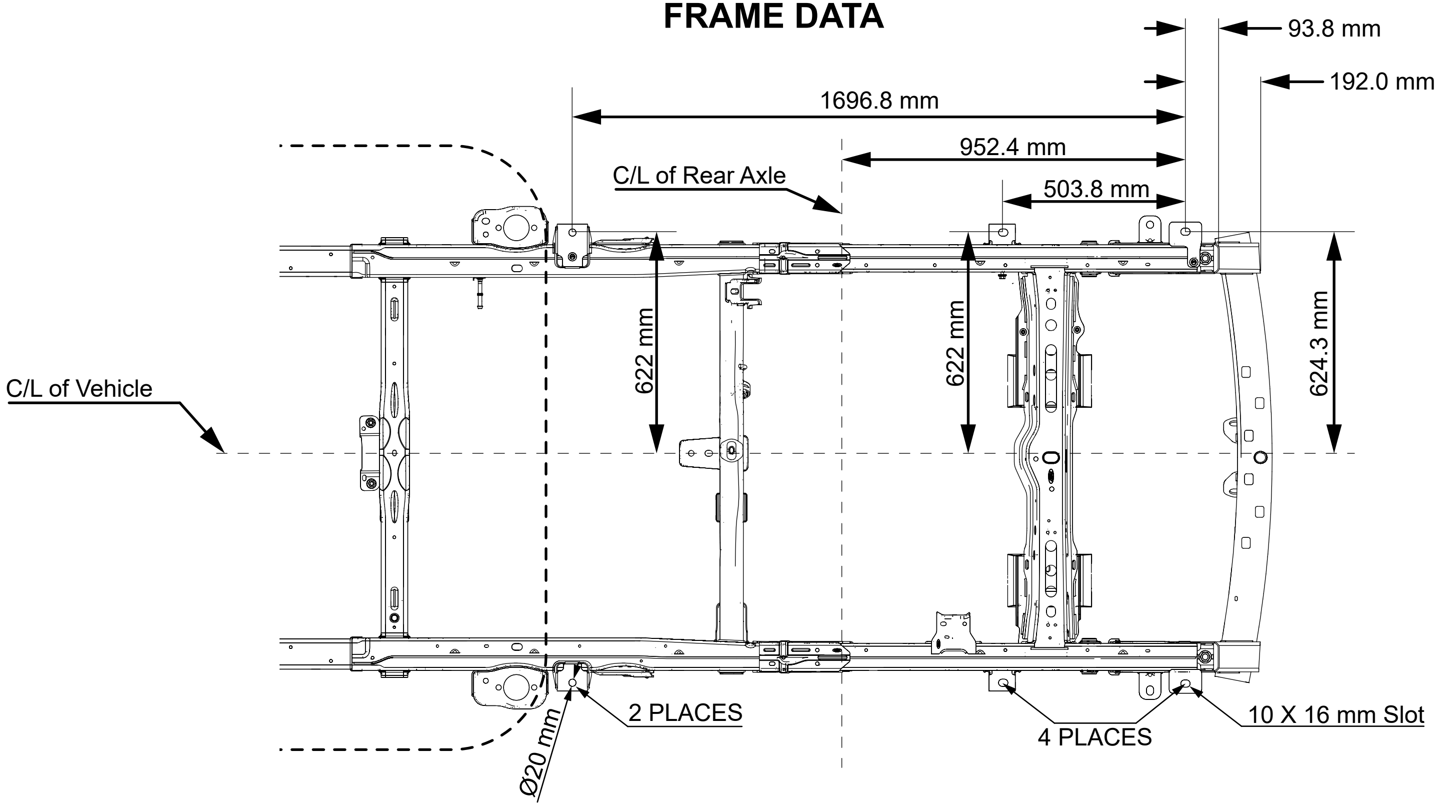
[ ] DIMENSIONS ARE INCHES

* NOT SUPPLIED BY FORD MOTOR COMPANY

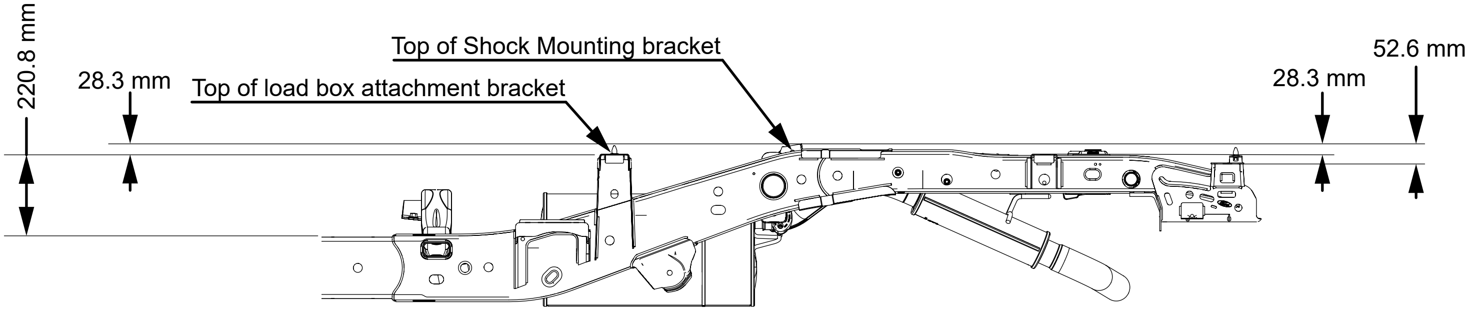
▽CRITICAL CONTROL ITEM

Use the scuff guards, tie wraps, and clamps provided in the dunnage kit.
Do not extend the fue fill system outboard of the second unit body.

RANGER
PICKUP BOX DELETE
FRAME DATA


93.8 mm
192.0 mm
1696.8 mm
952.4 mm
C/L of Rear Axle
503.8 mm
622 mm
622 mm
624.3 mm
C/L of Vehicle
2 PLACES
4 PLACES
10 X 16 mm Slot
Ø20 mm

PICKUP BOX HOLES
SYMMETRICALLY OPPOSITE


220.8 mm
28.3 mm
Top of load box attachment bracket
Top of Shock Mounting bracket
52.6 mm
28.3 mm

RANGER
WHEEL & TIRE DATA

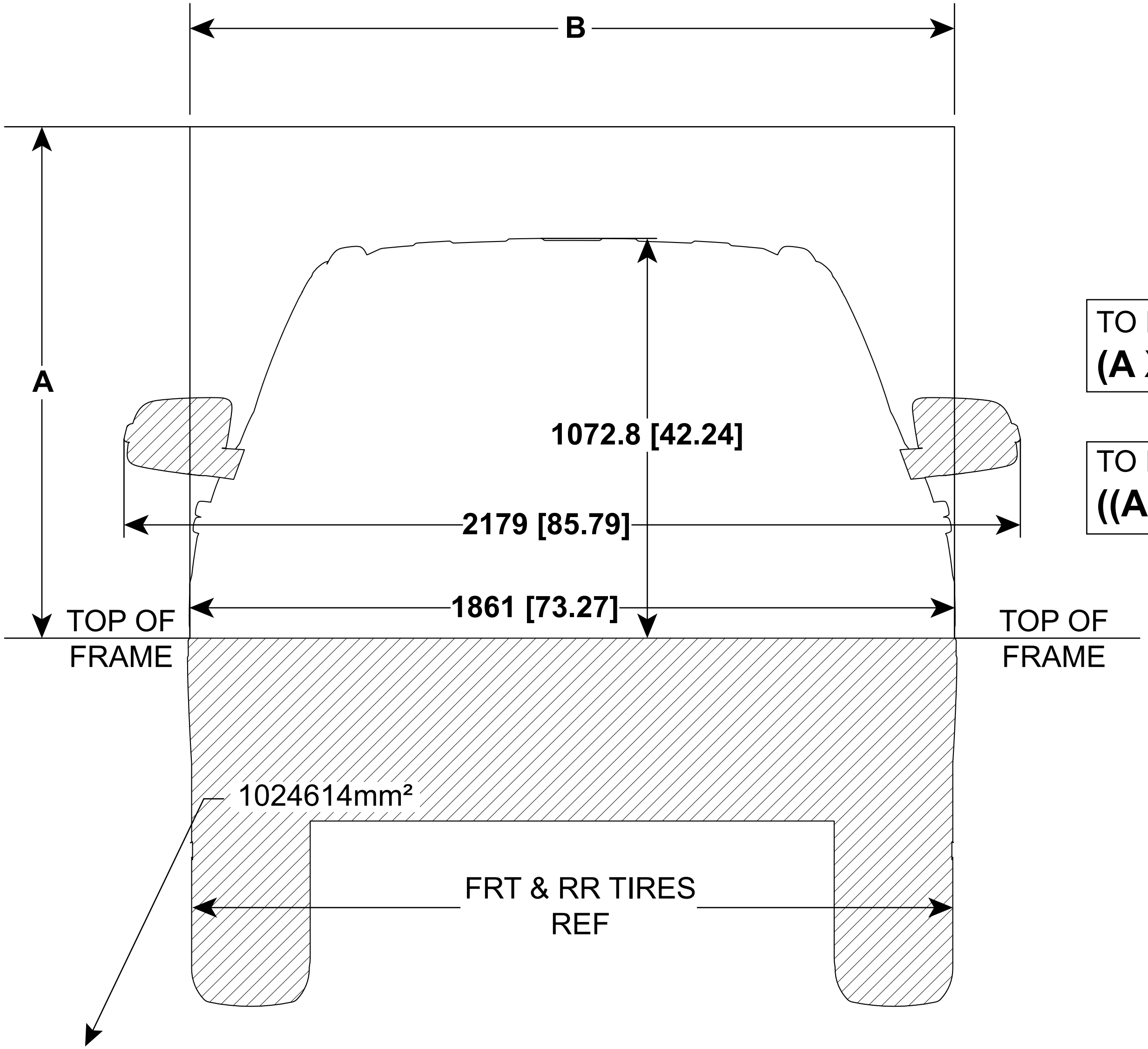
WHEEL DATA

Wheel Type	Wheel Size (in.)	Offset (mm)	No. of Studs	Bolt Circle Diameter (in.)/(mm)	Maximum Wheel Capacity Load (lbs.)
Silver-Painted Steel (64A)	16 X 7	55 mm	6	5.5/139.7	1620
Silver-Painted Aluminum (64Y)	17 X 8	55 mm	6	5.5/139.7	
Magnetic-Painted Aluminum (64D)	17 X 8	55 mm	6	5.5/139.7	
Chrome-like PVD Aluminum (64P)	17 X 8	55 mm	6	5.5/139.7	
Chrome-like PVD Aluminum (64F)	18 X 8	55 mm	6	5.5/139.7	
Machined Aluminum with Magnetic-painted pockets (64J)	18 X 8	55 mm	6	5.5/139.7	
Machined Aluminum with Stealth-Gray-painted pockets (649)	18 X 8	55 mm	6	5.5/139.7	

TIRE DATA

Size (Road Tyres)	Rim Width [in]	Measured Section Width [in]	Measured Static Loaded Radius [in]
255/70R16 111T A/S BSW	7	10.07	13.5
255/65R17 110T A/S BSW	8	10.47	13.59
255/65R17 110T A/T BSW	8	10.55	13.57
265/65R17 112T A/T OWL	8	10.64	13.42
265/60R18 110T A/S BSW	8	10.69	13.69
265/60R18 110T A/T BSW	8	10.72	13.46
265/60R18 110T A/T OWL	8	10.72	13.46
LT265/65R17 109T A/T OWL	8	10.71	14.44

RANGER
FRONT SURFACE AREA WORKSHEET


B
A
1072.8 [42.24]
2179 [85.79]
1861 [73.27]
TOP OF FRAME
TOP OF FRAME
1024614mm²
FRT & RR TIRES REF

A = BOX HEIGHT IN INCHES

B = BOX WIDTH IN INCHES

TO FIND FRONT SURFACE AREA IN SQ INCHES
(A X B) + 1719.8 =

TO FIND FRONT SURFACE AREA IN SQ FEET
((A X B) / 144) + 11.94 =

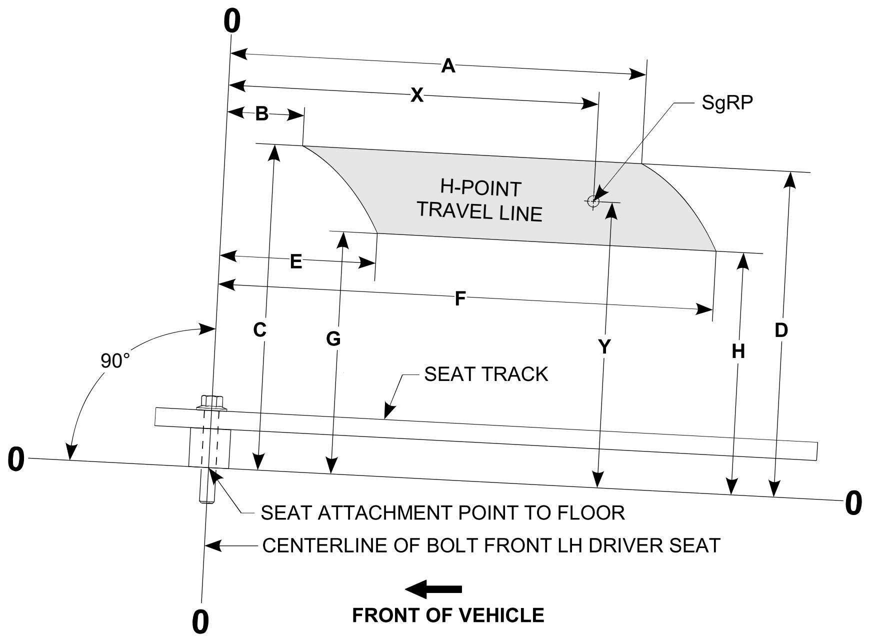
BELOW FRAME SHADED AREA EQUALS
1024614 mm² / (25.4 X 25.4) = 1588.2 SQ.IN.
1588.2 / (12 X 12) = 11.03 SQ.FT.

MIRROR SHADED AREA EQUALS
(42458 X 2) mm² / (25.4 X 25.4) = 131.6 SQ.IN.
131.6 / (12 X 12) = 0.91 SQ.FT.

TOTAL SHADED AREA EQUALS
1109530 mm² / (25.4 X 25.4) = 1719.8 SQ.IN.
1719.8 / (12 X 12) = 11.94 SQ.FT.

NOTES — [ ] DIMENSIONS ARE INCHES.

RANGER
SEAT TRACK & H-POINT DATA


0
A
X
B
SgRP
H-POINT
TRAVEL LINE
E
F
C
G
Y
H
D
90°
SEAT TRACK
0
0
SEAT ATTACHMENT POINT TO FLOOR
CENTERLINE OF BOLT FRONT LH DRIVER SEAT
0
FRONT OF VEHICLE

MULTI-WAY SEATS

SEAT TRAVEL DATA

Seat Model	Seat Dimensions								SgRP Location	
	A	B	C	D	E	F	G	H	X	Y
4-Way Seat	280.2 [11.03]	26.2 [1.03]	311.5 [12.26]	309.8 [12.20]	88.7 [3.49]	342.7 [13.49]	250 [9.84]	248.2 [9.77]	294.3 [11.59]	279.3 [11.00]
8-Way Seat	281.4 [11.08]	24.5 [0.96]	311.2 [12.25]	309.4 [12.18]	87.1 [3.43]	343.9 [13.54]	249.6 [9.83]	247.9 [9.76]	294.3 [11.59]	279.3 [11.00]

Seat Track Angle To Top Of Frame = 4.5°

NOTES — [ ] DIMENSIONS ARE INCHES.

RANGER
PICKUP BOX DELETE
MAXIMUM UNLOADED VEHICLE WEIGHT (UVW)

PICKUP BOX DELETE

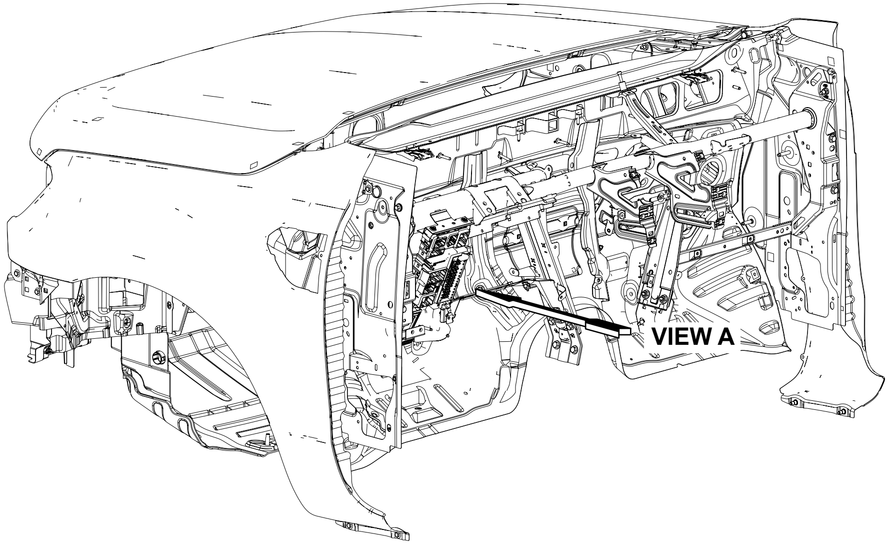
Model / Cab	Drive	Engine	Maximum UVW (pounds)
SuperCab	4x2	2.3 L	5060

RANGER
CHMSL CIRCUIT

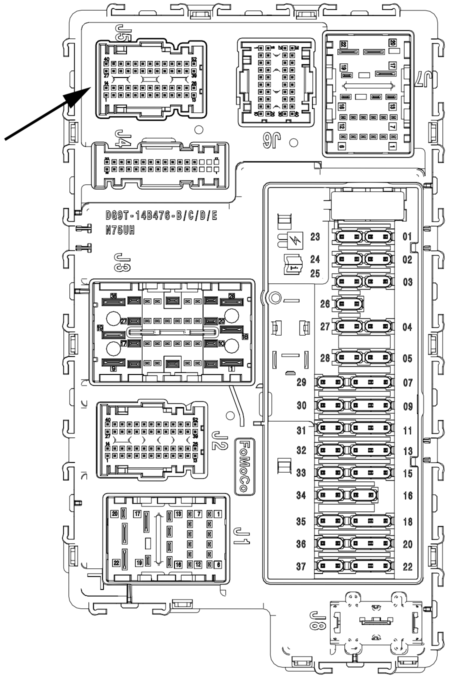
When Equipment is mounted that blocks the factory CHMSL, An auxiliary CHMSL must be fitted.

Trim Level	Circuit Type	Max Current (1)	Factory CHMSL Load	Circuit Reserve Capacity with Factory CHMSL (2)
XL/XLT	PWM	1.70A	1.06A	0.64A
Lariat	Non-PWM	1.70A	0.20A	1.50A

Notes:
(1) - The Maximum current load for the circuit must not be exceeded
(2) - If auxiliary CHMSL exceeds the reserve capacity, the factory CHMSL must be disconnected.

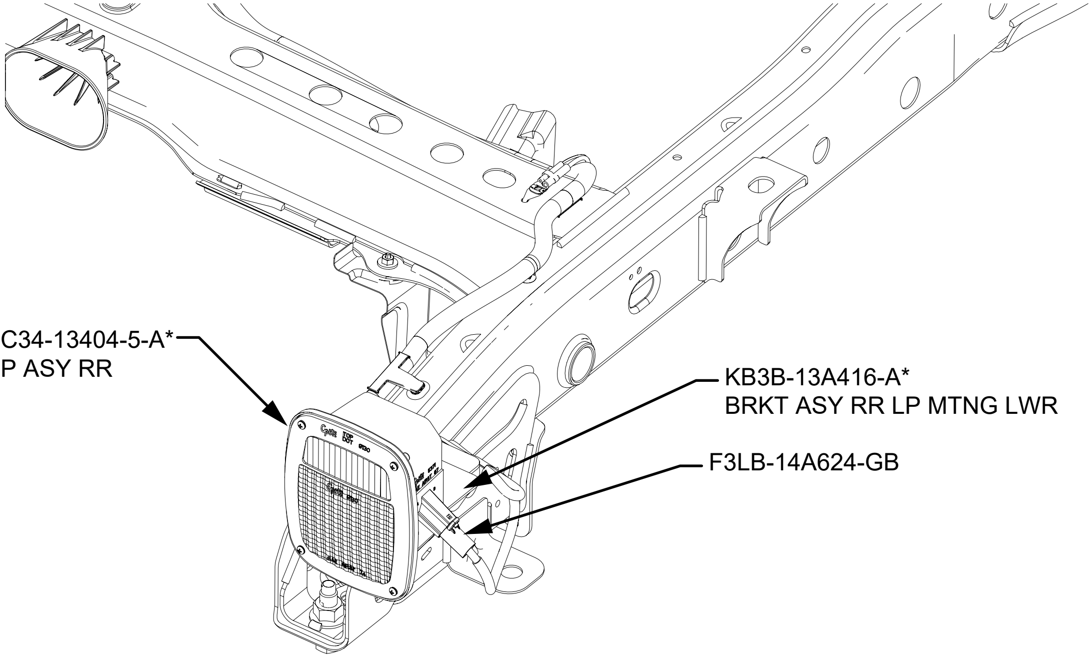


CHMSL CIRCUIT
BCM (LH UNDER DASH)
CONNECTOR 5, PIN 13
WIRE COLOR : YE/GY



VIEW A

RANGER
ELECTRICAL WIRING
BOX DELETE TAIL LAMPS


6C34-13404-5-A*
LP ASY RR
KB3B-13A416-A*
BRKT ASY RR LP MTNG LWR
F3LB-14A624-GB

Tail Lamp Pin Out				
4 way – FL3B-14A624-GB				
Function (2)	Pin#	Wire Color	Circuit Type (2)	Max Current (4)
Reverse	1	GN / BN	PWM (3)	3.9A(1)
Park	3	RH: WH / OG LH: VT / GN	PWM (3)	0.52A
Stop/Turn	4	RH: GN / OG LH: GY / OG	PWM (3)	2.2A
Ground	2	BK	N/A	6.8A

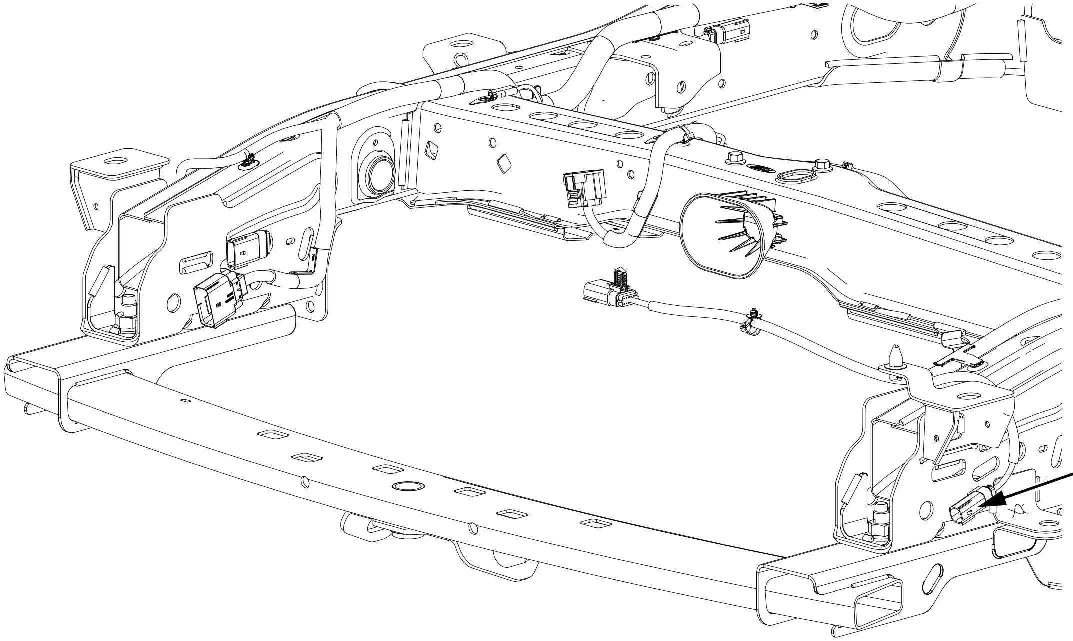
(1) Combined load for RH and LH Lamps

(2) Circuits are not re-configurable

(3) Incandescent bulbs are recommended

(4) Continuous at 12V

RANGER
ELECTRICAL WIRING
BOX REMOVAL TAIL LAMPS



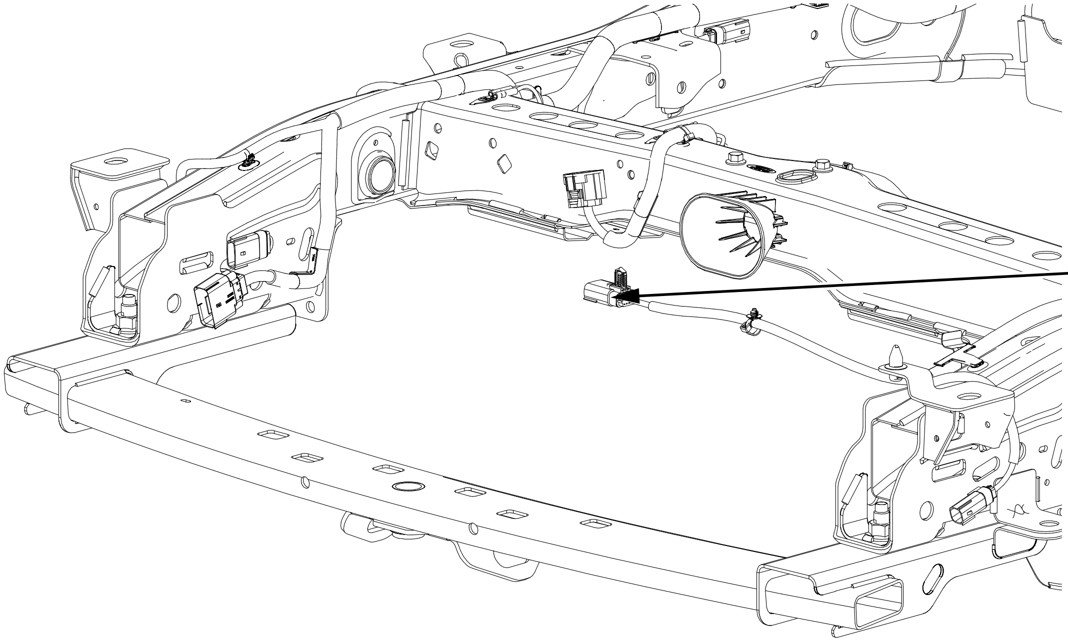
NOTES:
Box Removal is only recommended on XL models WITHOUT Co-Pilot360 option. All other models have BLIS and Rear Park Aid features which utilize sensors in the tail lamps and rear bumper respectively. Error messages will appear during key on if these components are removed from the vehicle. These vehicle features cannot be permanently disabled.

Pickup Tail Lamp Pin Out (XL without Co-Pilot360)
6 way - 5W7T-14A624-EB

Function (2)	Pin #	Wire Color	Circuit Type (2)	Max Current (4)
Reverse	4	GN / BN	PWM (3)	3.9 A (1)
Park	3	RH: WH / OG LH: VT / GN	PWM (3)	0.52 A
Turn	5	RH: GN / OG LH: GY / OG	PWM (3)	2.2 A
Stop	2	VT / BN	PWM (3)	2.8 A
Ground	1	BK	N/A	6.8 A

(1) Combined load for RH and LH Lamps
(2) Circuits are not re-configurable
(3) Incandescent bulbs are recommended
(4) Continuous at 12V

RANGER
ELECTRICAL WIRING
TAILGATE REMOVAL - POWER LOCKS



Chassis Wiring Pin Out for Tailgate
(Power Lock Function Shown)
12 way - 4W1T-14A624-AB

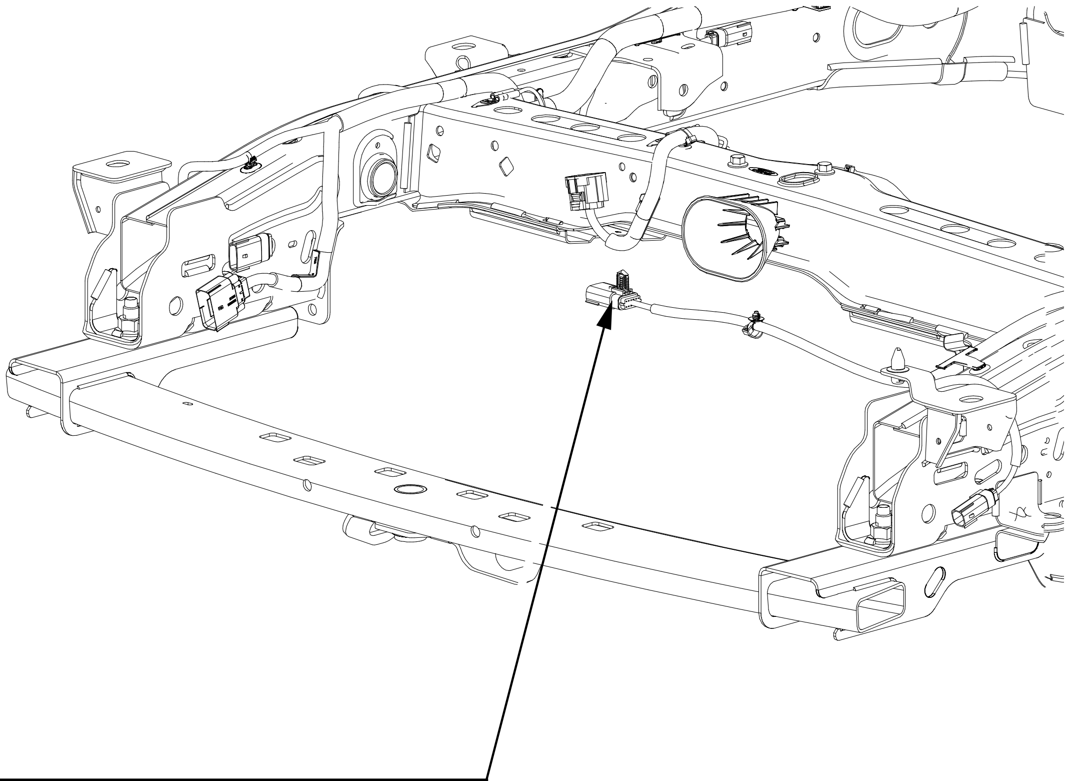
Function	Pin #	Wire Color	Max Current
Lock	12	GY / BN	20 A (fused)
Unlock	5	BN / GN	20 A (fused)

During Lock event, lock circuit is at battery voltage, unlock circuit is tied to ground. The opposite occurs during unlock event.

For Ranger Pickup trucks where the Tailgate will be removed, the power locking tailgate circuit (on XLT and Lariat) may be used for a similar function with any installed accessories (Cap, tool boxes, etc)

RANGER
ELECTRICAL WIRING
BOX AND TAILGATE REMOVAL REAR VIEW CAMERA

For Ranger Pickup trucks, the rear view camera is contained within the tailgate handle. If the Tailgate or Pickup Box is removed from the vehicle, another camera will need to be installed to continue compliance to FMVSS 111. A Rear View Camera Kit may be ordered from your Ford Dealer (part number JC3Z-19G490-D) for this purpose. The kit includes a camera, camera mounting hardware and 20’ wiring harness. Camera placement locations for this kit are recommended on page 21, however the vehicle alterer is responsible for certification to the rear view camera portion of FMVSS 111.



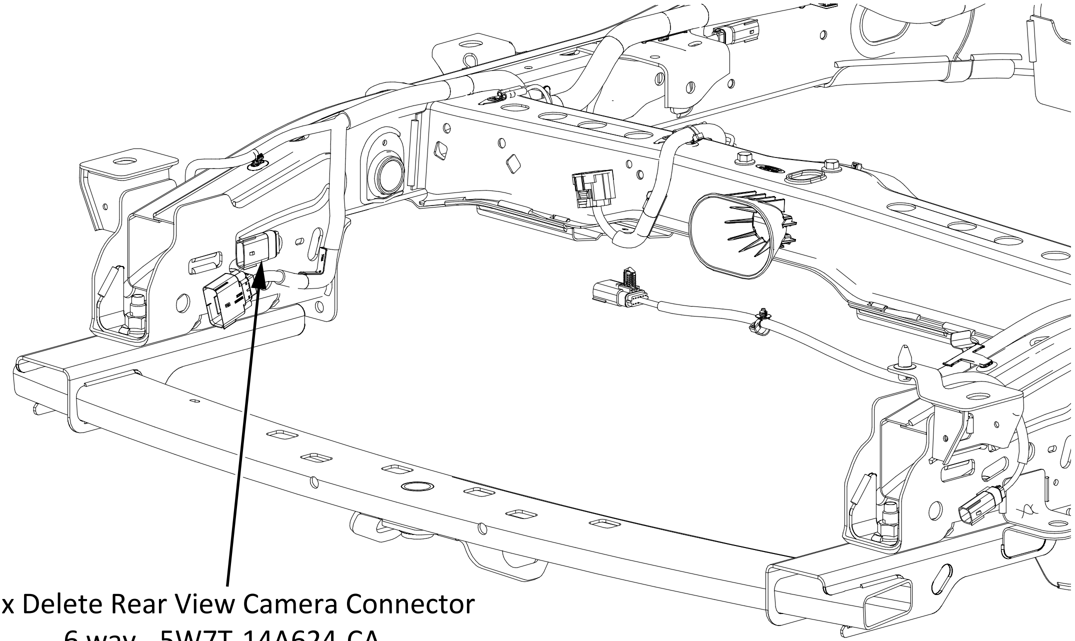
Chassis Wiring Pin Out for Tailgate (Rear View Camera Functions Shown) 12 way - 4W1T-14A624-AB		
Function	Pin #	Wire Color
V+ Bat	6	BN / YE
Lin Bus	7	VT / WH
Video -	2	BU / GY
Video +	8	WH / GN
Ground	3	BK

Rear View Camera Kit JC3Z-19G490-D Inline 6 way - 5W7T-14A464-DA		
Function	Pin #	Wire Color
V+ Bat	1	VT / BN
Lin Bus	6	WH
Video -	3	VT / GY
Video +	2	GN / BU
Ground	4	BK

NOTES:

- The wiring harness included in the Rear View Camera Kit ƘƖͼă Ɩͼ c ǇƛƴƛƴŜ ŎƨƴƴŜŎǘƨƚ ǘƘƖͼǘ is not compatible with the мн Ǉƛƴƴconnectorƴƛƴƴƴƴƴƴƴƴƴƴƴƴƴƴƴƴƴ on the vehicle. ! ŎƨdzǇƭŜ ƨƬ ƨǇǘƛƨƴã ƖͼƞŜ ƖͼøƖͼƛƭƖͼōƭŜY
  - The existing tailgate harness may be reused or a new one may be ordered from your Ford Dealer (part number KB3Z-14A412-B) and used in place of the wiring provided in the kit.
  - The wiring in the Camera Kit can be made compatible with the vehicle by replacing the 6 pin inline connector with a 12 pin (Pigtail Kit #AU2Z-14S411-AMB). A shield is used to minimize noise in the video circuits, therefore it is not recommended that the harness from the kit be shortened. When replacing the 6 pin connector, it is recommended that the wires are clipped as close to the 6 pin connector as possible to maintain the integrity of the shield. Follow the recommended, approved splice procedure provided in the pigtail kit for each circuit spliced. The pigtail connector will not remain sealed if any circuits are removed.
- It is not recommended to reuse the camera provided in the tailgate for mounting anywhere else on the vehicle. The guidance overlay (i.e. lines showing the vehicle path and Red/Yellow/Green proximity zones) will not be accurate for the new location and cannot be turned off. The camera provided in the Rear View Camera Kit does not have guidance overlay to avoid this issue.

RANGER
ELECTRICAL WIRING
BOX DELETE REAR VIEW CAMERA



Box Delete Rear View Camera Connector
6 way - 5W7T-14A624-CA

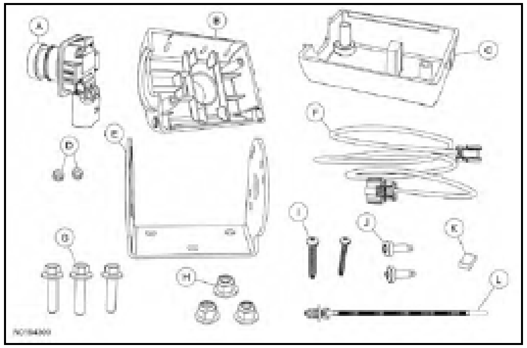
NOTES:

A Rear View Camera Kit is available as an orderable option (Order Code 53N) with all Ranger Pickup Box Delete vehicles.

For Ranger Pickup Box Delete vehicles ordered without the factory Rear View Camera Kit, a compatible kit is available through your Ford Dealer (part number JC3Z-19G490-D). An FDRS (Ford Diagnosis and Repair Tool) is required to activate the camera kit.

Camera placement locations for this kit are recommended on page 21, however the subsequent stage vehicle manufacturer is responsible for certification to the rear view camera portion of FMVSS 111.

Rear View Camera Kit Contents



Item	Quantity	Description
A	1	Rear View Camera
B	1	Front Camera Case Half
C	1	Rear Camera Case Half
D	2	Screw Retaining nuts
E	1	Mounting Bracket
F	1	Wire Harness
G	3	Bolts
H	3	Nuts
I	2	Screws (Longer)
J	2	Screws (Shorter)
K	1	Foam Pad
L	1	Push Pin Tie Strap

RANGER
ELECTRICAL WIRING
REAR VIEW CAMERA PLACEMENT FOR BOX DELETE / REMOVAL

Ford Rear View Camera Compliance Capability:
Ford has tested the available rear view cameras in combination with the available displays and found all pairings capable of meeting the rear view camera portion of FMVSS 111 requirement when mounted within the zones defined in below. Actual certification to the rear view camera portion of FMVSS 111 is the responsibility of the subsequent stage manufacturer (box delete) or vehicle alterer (box or tailgate removal).

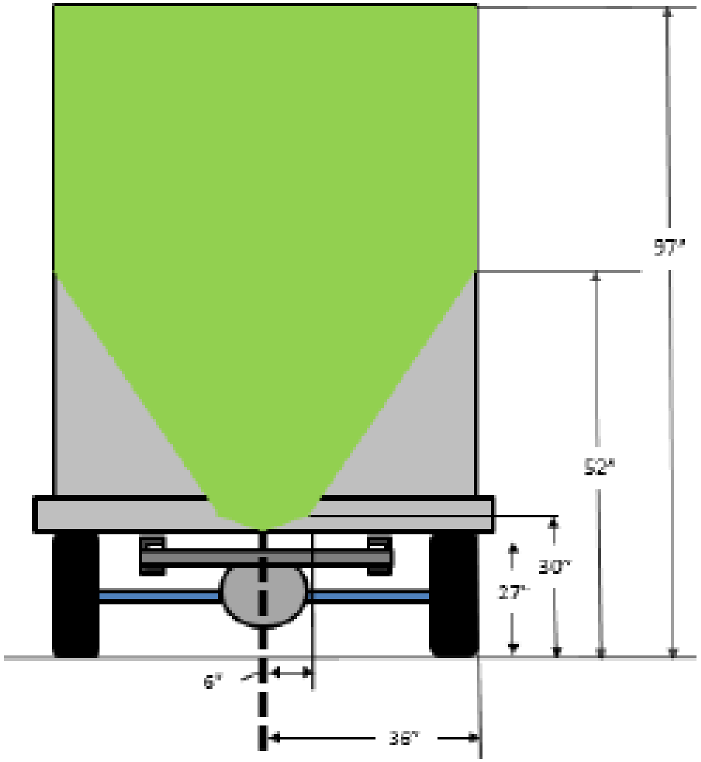
Applicable Equipment:

- Equipment provided with Rear View Camera option 53N on Ranger Box Delete (R1A) incomplete vehicles.
- Equipment provided in Rear View Camera Kit (part number JC3Z-19G490-D) when used on Box Delete vehicles or on Pickups where the tailgate or pickup box is removed.

Applicable Vehicle Displays:

- 4.2” Center Stack
- 8” Center Stack

Compatible Rear View Camera Locations



Note that the NTEA has provided detailed information and educational resources to help members better understand the new FMVSS 111/reverse camera conformity (including a manual and test kit). Ref. http://www.ntea.com/fmvss111rearvisibility